

U.S. ENVIRONMENTAL PROTECTION AGENCY  
POLLUTION/SITUATION REPORT  
Radiation - Standard Products - Removal Polrep  
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Region VII

**Subject:** POLREP #4  
Final Pol/SitRep  
Radiation - Standard Products  
  
Wichita, KS  
Latitude: 37.6748800 Longitude: -97.3305000

**To:** David Williams, EPA

**From:** Randy Schademann, OSC

**Date:** 7/22/2013

**Reporting Period:** 1/25/2013 - 6/26/2013

## 1. Introduction

### 1.1 Background

<b>Site Number:</b>	A7N1	<b>Contract Number:</b>	EP-R7-07-12
<b>D.O. Number:</b>	0131	<b>Action Memo Date:</b>	6/13/2012
<b>Response Authority:</b>	CERCLA	<b>Response Type:</b>	Time-Critical
<b>Response Lead:</b>	EPA	<b>Incident Category:</b>	Removal Action
<b>NPL Status:</b>	Non NPL	<b>Operable Unit:</b>	
<b>Mobilization Date:</b>	7/16/2012	<b>Start Date:</b>	7/16/2012
<b>Demob Date:</b>	6/26/2013	<b>Completion Date:</b>	6/26/2013
<b>CERCLIS ID:</b>	KSN000705966	<b>RCRIS ID:</b>	
<b>ERNS No.:</b>		<b>State Notification:</b>	KDHE
<b>FPN#:</b>		<b>Reimbursable Account #:</b>	

#### 1.1.1 Incident Category

Time-critical, fund-lead removal action.

#### 1.1.2 Site Description

##### 1.1.2.1 Location

650 East Gilbert Street, Wichita, Kansas.

##### 1.1.2.2 Description of Threat

Radium-226 contaminated material.

### 1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

The Kansas Department of Health and Environment (KDHE) conducted field work in August, September and December 2007, to support a Unified Focus Assessment (UFA) Report issued in February 2008. Five groundwater samples and 24 soil samples were collected at 650 East Gilbert for the UFA. Analysis included radium-226, the eight Resource Conservation and Recovery Act (RCRA) metals and volatile organic compounds (VOCs). The UFA identified several areas that had elevated radium concentrations exceeding the standard established at 40 CFR § 192.12 for a cleanup level not to exceed background plus five pCi/g (Uranium Mill Tailings Radiation Control Act [UMTRCA]) (up to 81,800 pCi/g of radium-226). No samples were taken or field screening conducted at the 920 South St. Francis parcel during the KDHE UFA.

The EPA conducted field activities for a Removal Site Evaluation (RSE) in March and April of 2009. Field screening with radiation detectors and radiation analysis of soil samples further defined the vertical and aerial extent of contamination on the Gilbert parcel as well as identifying radium-contaminated material on the South St. Francis parcel.

## 2. Current Activities

### 2.1 Operations Section

#### 2.1.1 Narrative

Soil contaminated with radium-226 above the 6.87 pCi/g action level was removed and transported to Energy Solutions' disposal facility in Grantsville, Utah, and US Ecology's facility in Grand View, Idaho. After removing the contaminated soil from the affected area, the excavated soils were replaced with clean soils. Clean soils are soils that have been analyzed for radium, with results indicating that the concentration is at or below the background and that all other hazardous substances, pollutants or contaminants are below residential soil screening levels as determined by the EPA, or as referenced in the Region 9 Preliminary Remediation Goal tables found at <http://www.epa.gov/region9/superfund/prg/>, or as outlined in the KDHE RSK Manual, Version 5, 2010. The soils at the site were backfilled with soil topped with either concrete or rock.

The excavated material was transported and disposed of at licensed facilities in accordance with all applicable local, state and federal requirements.

At this time, no post removal site control will be necessary.

#### 2.1.2 Response Actions to Date

A fund-lead, time-critical removal action was initiated on July 28, 2009, and field work was completed by July 31, 2009, at the 920 South St. Francis Street parcel. Approximately 264 tons of radium-contaminated soil and bricks were excavated and transported for disposal at US Ecology's facility in Grand View, Idaho. The excavated areas were backfilled with soil. A detailed description of that effort can be found in the March 11, 2010, START removal report, which is in the documents section of this web site (START\_removal\_report.pdf).

A second fund-lead action was initiated on July 16, 2012, to address the contamination at the 650 East Gilbert Street parcel. That removal action was largely completed on August 28, 2012. A total of 1,775.9 tons of contaminated material was shipped via rail to Energy Solution's Utah facility. The Radiation-Standard Products site, because of its proximity to a rail spur, was utilized as a staging area for material from two other Wichita radiations sites Standard Precision and Garwin. By August 28 material from all three sites had been loaded and shipped and backfill operations completed.

A final gamma survey at the Radiation-Standard Products site was delayed because of a theft of equipment from a contractors vehicle. Despite conducting surveys during the excavation, several small areas of elevated gamma readings were detected during the final survey in November 2012. Because the removal equipment had long since been demobilized from the site, the contaminated soil was excavated in 2013.

The areas identified in November 2012, were excavated on June 25, 2013, and the contaminated material hauled to US Ecology's Idaho facility. A total of 44 tons of material was excavated from the site, which required two trucks. The areas were backfilled the same day and the crews demobilized on June 26, 2013.

Sample results from the post-excavation sampling indicated that the removal achieved the action limit following the Multi-Agency Radiation Survey and Site Investigation Manual (MARSIM). Air samples collected during the removal action indicated that dust suppression efforts were successful in preventing fugitive emissions. Results of all removal sampling efforts and a more detailed description of the removal efforts will be incorporated into the START removal action report, which will be included in documents section of this website when completed.

No further on-site removal actions are anticipated for this site.

### 2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

A PRP search is in progress by the EPA.

### 2.1.4 Progress Metrics

<b>Date</b>	<b>Wastestream</b>	<b>Medium</b>	<b>Quantity</b>	<b>Manifest #</b>	<b>Treatment</b>	<b>Disposal</b>
July 2009	Radium contaminated material	Soil, bricks	264 tons	Multiple	None	US Ecology, Grand View, Idaho
July-August 2012	Radium contaminated material	Soil, bricks	1775.9 tons	Multiple	None	Energy Solutions, Grantsville, Utah
June 2013	Radium contaminated material	Soil, bricks	44 tons	Multiple	None	US Ecology, Grand View, Idaho

## 2.2 Planning Section

### 2.2.1 Anticipated Activities

#### 2.2.1.1 Planned Response Activities

No additional on-site activities are planned.

#### 2.2.1.2 Next Steps

A final report will be developed by START and included in the documents section of this web site.

### 2.2.2 Issues

None at this time.

## 2.3 Logistics Section

Logistics were handled by the ERRS Response Manager in coordination with the OSC.

## 2.4 Finance Section

### 2.4.1 Narrative

No further activities anticipated.

### Estimated Costs \*

	Budgeted	Total To Date	Remaining	% Remaining
<b>Extramural Costs</b>				
ERRS - Cleanup Contractor	\$523,692.00	\$500,000.00	\$23,692.00	4.52%
TAT/START	\$33,600.00	\$18,000.00	\$15,600.00	46.43%
<b>Intramural Costs</b>				
USEPA - Direct	\$25,000.00	\$16,000.00	\$9,000.00	36.00%
<b>Total Site Costs</b>	<b>\$582,292.00</b>	<b>\$534,000.00</b>	<b>\$48,292.00</b>	<b>8.29%</b>

\* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

## 2.5 Other Command Staff

### 2.5.1 Safety Officer

All removal work was conducted in accordance with the approved Site Safety Plan and under the guidance of the EPA Region 7 Radiation Safety Officer, Chuck Hooper.

### 2.6 Liaison Officer

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, served as the Liaison Officer.

### 2.7 Information Officer

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, served as the Information Officer.

#### 2.7.1 Public Information Officer

A fact sheet was prepared and delivered to congressional and state representatives. Local government notification was conducted through the Sedgwick County, Kansas Health Department.

No media requests were recieved for this site. Only nominal public interest was generated from passerbys.

## **2.7.2 Community Involvement Coordinator**

Beckie Himes, Community Involvement Coordinator with the EPA Region 7 - Office of Public Affairs, served as the CIC.

## **3. Participating Entities**

### **3.1 Unified Command**

A unified command was not established for this activity.

### **3.2 Cooperating Agencies**

US EPA  
KDHE  
Sedgwick County, Kansas Health Department  
City of Wichita

## **4. Personnel On Site**

During the last of the removal activities, there were five personnel on-site: an EPA On-Scene Coordinator, three Emergency and Rapid Response Services (ERRS) contractors and one Superfund Technical Assessment and Response Team (START) contractor.

During the 2012 removal activities, there were 10 personnel on site: two EPA OSCs, seven ERRS contractors and one START contractor.

During the 2009 effort, there were six personnel on-site: one OSC, three ERRS contractors and one START contractor.

## **5. Definition of Terms**

BAR - Bureau of Air and Radiation  
CERCLA - Comprehensive Environmental Response and Liability Act  
CFR - Code of Federal Regulations  
EPA - U.S. Environmental Protection Agency  
ERRS - Emergency and Rapid Response Services  
KDHE - Kansas Department of Health and Environment  
MARSSIM - Multi-Agency Radiation Survey and Site Investigation Manual  
pCi/g - picocuries per gram  
RCRA - Resource Conservation and Recovery Act  
RSE - Removal Site Evaluation  
RSK - Risk-based Standards for Kansas  
START - Superfund Technical Assistance and Response Team  
UFA - Unified Focus Assessment  
UMTRCA - Uranium Mill Tailings Radiation Control Act

## **6. Additional sources of information**

### **6.1 Internet location of additional information/report**

For additional information please refer to <http://www.epaosc.org/standardproducts>.

### **6.2 Reporting Schedule**

This is the final PolRep for the site.

## **7. Situational Reference Materials**

February 12, 1998, memorandum from Stephen Luftig, the Director of the Office of Superfund Remediation

Technology Innovation (February 12, 1998, Directive number 9200.4-25)

Section 275 of the Atomic Energy Act, 42 U.S.C. § 2022, as amended by section 206 of the UMTRCA of 1978, 42 U.S.C. § 7918, and regulations at 40 CFR § 192.12

Region 9 Regional Screening Level tables found at <http://www.epa.gov/region9/superfund/prg/>

[KDHE](#) RSK Manual, Version 5, 2010